

# PRITHVIRAJ CHAVAN

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## PROFILE

Machine Learning enthusiast with hands-on experience in predictive modeling, natural language processing, and algorithm optimization. Skilled in AI, data analytics, ETL, and model deployment using Python and SQL. Eager to apply technical skills in AI-driven industries, particularly in healthcare and life sciences, to build scalable and impactful solutions.

## EDUCATION

**Bachelor of Engineering, Computer Science and Engineering** 2020 – 2024  
K.S. School of Engineering and Management, Bangalore

## SKILLS

Languages	Python, SQL, Java
Machine Learning	Scikit-learn, Model Optimization, Hyperparameter Tuning, EDA, Deployment
Deep Learning	Transformers (Gemma-3 4b), PyTorch, Natural Language Processing (NLP)
Data Processing	Apache Spark, ETL, Web Scraping
Libraries/Tools	Pandas, Power BI, Excel
Frameworks	FastAPI, Flask
Databases	PostgreSQL, MySQL

## EXPERIENCE

**Machine Learning Intern** Aug 2023 – Sep 2023  
Prinston Smart Engineers, Bangalore

- Built a telecom churn prediction model with **90%** accuracy using real-world customer data.
- Automated ETL pipelines and feature engineering workflows, improving data processing efficiency by **20%**.
- Performed EDA, model validation, and production testing – reduced model training time by **15%**.

## PROJECTS

### Sepsis Prediction Model (MIMIC-III)

- Developed a prototype to detect sepsis onset in ICU patients using the MIMIC-III dataset (40k+ records).
- Engineered features from time-series vitals using domain knowledge and medical literature.
- Improved classification accuracy, reducing estimated mortality risk by **8%**.

### HireSphere – Recruitment Automation Model

*Ongoing*

- Designed automation for recruitment tasks, including resume screening and job matching using NLP.
- Developed a CV Agent using Gemma-based model to extract resume data .
- Built a JD Agent for semantic similarity between job descriptions and resumes using embeddings.
- Developing an interview scheduling bot to reduce HR workload by **40%**.

## CERTIFICATIONS

Machine Learning with Apache Spark – IBM Coursera (2025)  
IBM Data Science Professional Certificate – Coursera (2024)  
Python Certification – HackerRank (2024)  
AWS Cloud Technical Essentials – Coursera (2025)